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Fermentative prodn. of L-arginine - by incubation of microorganism of
genus *Brevibacterium* or *Corynebacterium*

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Patent Family:

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Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 57005692	A	4		

Abstract (Basic): JP 57005692 A

L-Arginine (I) is produced by incubation of microorganism (II) of genus *Brevibacterium* or *Corynebacterium*, being resistant against cpd. (III) having vitamin-P activity and being able to accumulate (I); and collection of (I) from culture medium. Prodn. efficiency is high.

Examples of (II) are *Brevibacterium divaricatum*, *Brevibacterium flavum*, *Brevibacterium lactofermentum*, *Corynebacterium glutamicum*, etc. As (III), acenocoumarin, apinin, coumetarol, cyclocumarol, dicumarol, etc. prep'd. Typically (II) is incubated in culture medium composed of 2 g/dl glucose; 0.1 g/dl KH₂PO₄; 0.04 g/dl MgSO₄.7H₂O; 1.0 mg/dl FeSO₄.7H₂O, etc. As carbon source, glucose, sucrose, and starch-hydrolysed prods. are used. As nitrogen source, ammonia gas, ammonia-water, ammonium salt and urea are suitable. The incubation is performed at 25-37 deg.C at pH 4-8 for 1-7 days.

Title Terms: FERMENTATION; PRODUCE; ARGININE; INCUBATE; MICROORGANISM; GENUS; BREVIBACTERIUM; CORYNEBACTERIUM

Derwent Class: B05; D16; E16

International Patent Class (Additional): C12P-013/10; C12R-001/13

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